

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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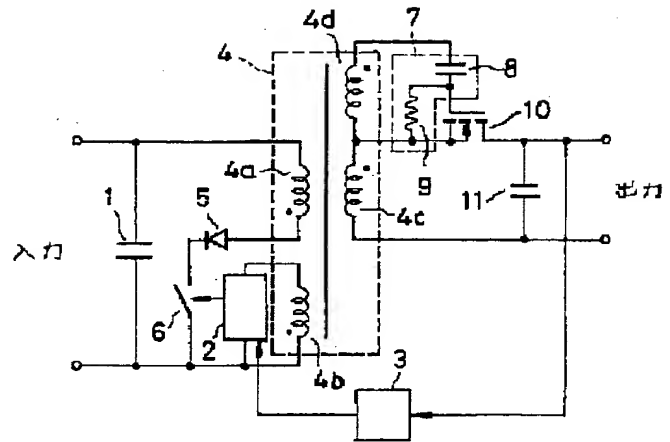
APPLICATION DATE : 26-05-93  
APPLICATION NUMBER : 05147092

APPLICANT : NEC CORP;

INVENTOR : SHINADA YOSUKE;

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TITLE : FLYBACK CONVERTER USING MOS  
TRANSISTOR AS SYNCHRONOUS  
RECTIFIER



ABSTRACT : PURPOSE: To prevent the decrease in efficiency under a light load in a flyback converter using a MOS transistor as a synchronous rectifier.

CONSTITUTION: A diode 5 is connected between a transformer 4 and a switch 6 to avoid power regeneration from output to input. An on-off frequency of the switch 6 is controlled according to the load condition by means of a frequency control circuit 3 and an ON period of the switch 6 is shortened under a light load and thereby energy to be supplied to the transformer 4 is made small, corresponding to the load. By this method, and efficiency can be increased.

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